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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/164,624	10/01/1998	YOSHIHIRO ISHIDA	35.C-13000	6892

5514 7590 11/05/2002

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NEW YORK, NY 10112

EXAMINER

YE, LIN

ART UNIT PAPER NUMBER

2612

DATE MAILED: 11/05/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/164,624

Applicant(s)

ISHIDA ET AL.

Examiner

Lin Ye

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 August 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 24-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 24-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) g.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 8/22/02 have been fully considered but they are not persuasive.

Since the Applicants cancel all claims 1-23 and add new claim 24-36, all response of the applicant's arguments is disclosed in the following office action.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 24-25, 28-29, 31-32 and 35-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Ito et al. U.S. Patent 6,108,033.

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Referring to claim 24, Ito reference discloses in Figures 3-4, 8 and 14, an image processing apparatus comprises an input unit (1101) adapted to input image data (See Col. 5, lines 56-59); a template registration step 14 as shown in Figure 4, the template image size is defined as $f_t(x,y)$ in image memory 1103 accordance with a program memory 1106 (See Col 5, lines 60-65 and Col. 6, lines 63-67), so it can be considered as a reception unit (image memory 1103) adapted to receive information from an external apparatus (program memory 1106) as to a size of an object or a distance to the object; a detection unit (CPU 1104) adapted to detect the object corresponding to the information received by said reception unit, from the image data (See Col 6, lines 20-21); and a transmission unit (output I/F 1108) adapted to transmit a detection result of the object to the external apparatus (alarm lamp 1110) when said detection unit detects the object.

Referring to claim 25, Ito reference discloses wherein said input unit (TV camera 1101) comprises an image pickup unit adapted to pick up the object image through an optical system as shown in Figure 15A (See Col. 14, lines 8-12).

Referring to claim 28, Ito reference discloses wherein said detection unit (CPU 1104) detects the object according to a difference value between pictures (between template image and new image, see Figure 4, steps 14-16).

Referring to claim 29, Ito reference discloses wherein said detection unit (1104) binarizes the difference value by using a predetermined threshold and detects the object according to a binarization result (See Col. 7, lines 64-67).

Referring to claim 30, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 24.

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Referring to claim 31, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 25.

Referring to claim 35, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 28.

Referring to claim 36, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 29.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 26, 27, 30, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al. U.S. Patent 6,108,033 in view of Salvati U.S. Patent 6,359,644.

Referring to claim 26, the Ito reference discloses all subject matter as discussed with respected to claim 25, but except Ito does not states the TV camera system can use focusing control information to measure the distance from the object to the predetermined position instead of magnification factor.

Salvati reference discloses in Figure 2, a video camera (10) comprises a lens system having selected optical characteristics and a CCD imager. The system includes a microprocessor/CPU that calculates the size of the target object by mathematically

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manipulating the optical characteristics, the focus data, the zoom data, and pixel data. The exact object distance is determined by feedback from the focus motor and calculating the deviation from zero. (See Col. 5, lines 25-30). This would be an advantage over Ito's TV camera system in that it could achieve to change an object image into a distance image for the purpose of recognizing objects and get more accurate distance result, as taught by Salvati. For that reason, it would have been obvious to one of ordinary skill in the art at the time to see the TV camera can associate the focusing control information for measuring the distance from the detected object to the predetermined position disclosed by Ito.

Referring to claim 27, the Ito reference discloses wherein the image pickup unit (1101) comprises a zoom control unit adapted to control zooming of the optical system, and said detection unit (CPU 1104) detects the object according to zoom control information generated by the zoom control unit (See Col. 14, lines 56-67).

Referring to claim 30, the Ito reference discloses wherein said image processing apparatus is used in a monitoring camera system (TV camera, See Col. 5, lines 41-50).

Referring to claim 33, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 26.

Referring to claim 34, Ito reference discloses all subject matter as discussed with respected to same comment as with claim 27.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Lin Ye** whose telephone number is **(703) 305-3250**. If attempts to

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reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on (703) 305-4929.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

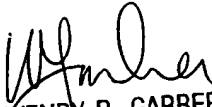
Washington, DC. 20231

Or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Lin Ye
November 3, 2002